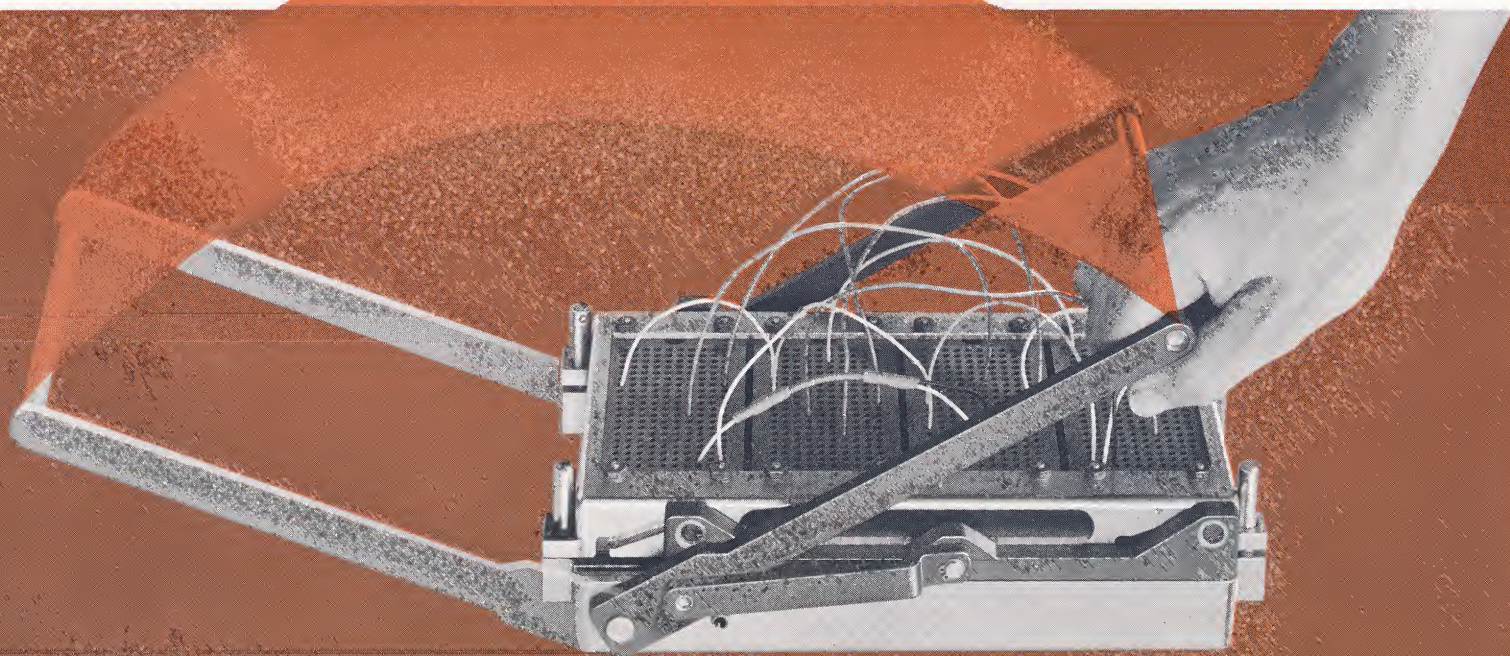




AMPHENOL

LEVER-ACTUATED
QUICK CONNECT-DISCONNECT
PATCH PANEL



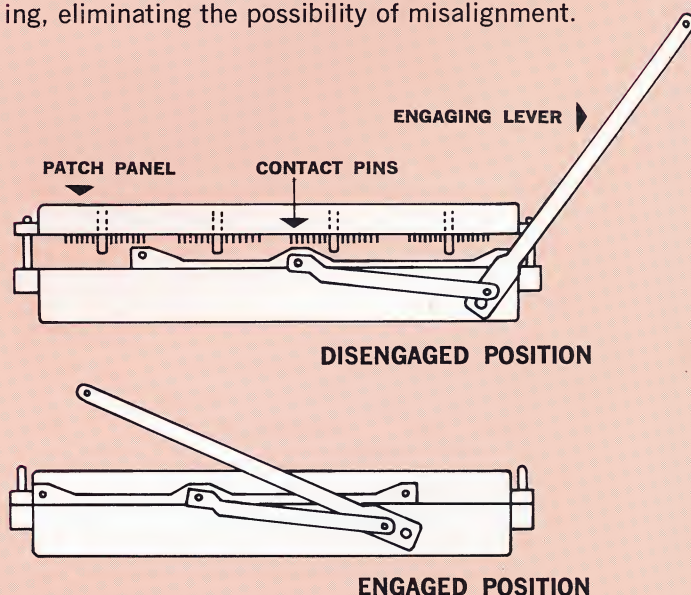
Pre-Programmable "Patch Panels" simultaneously engage and disengage 800 connections



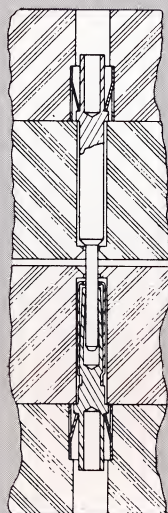
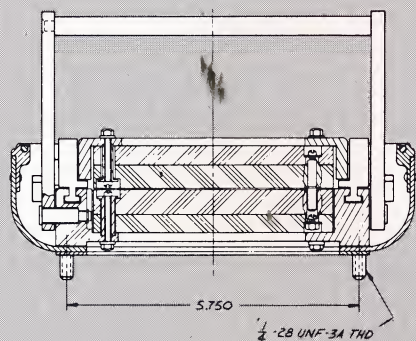
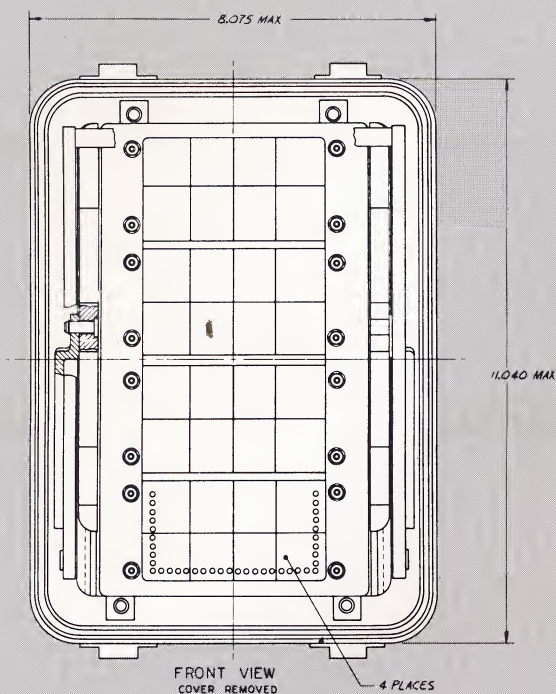
The versatility of the new AMPHENOL Patch Panel concept allows many combinations of circuitry to be pre-programmed and sealed. This permits permanent removal programming to coincide with various tapes. In low volt applications the unit can also be utilized as an in-work Patch Panel with live circuits, since the inserts can be reprogrammed while mated or unmated. Any combination of pin and socket contacts can be used, and any number of circuits can be accommodated by using multiple units. Units are available that can handle from 200 circuit contacts to 1200 circuit contacts in 200 contact-increments. The 200 contact inserts can be mounted individually while a single engaging mechanism is utilized. This affords a practical approach to stationary data processing applications where substantial quantities of inserts would be required.

Proven AMPHENOL Design used on Apollo Space Craft Launch Vehicle

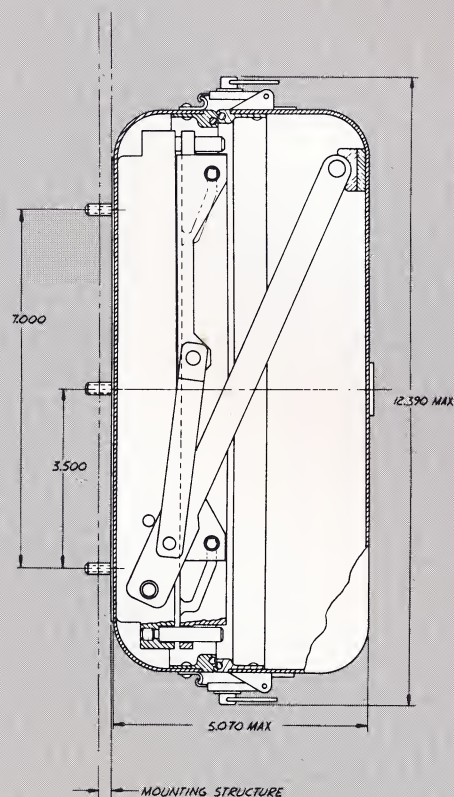
Excessive mating and unmating forces are overcome by utilizing a combination lever and inclined plane principle. The mechanical advantage is approximately 27:1 resulting in an average closing pressure for 800 contacts of only 5 lbs. Precision design includes guide-pin mating, eliminating the possibility of misalignment.



Ball-detent on guide-pins secure Patch Panel to allow the system to be mounted in any plane without the unmated half falling. To remove, only a small amount of direct manual release pressure need be applied.



NO. 20 PIN & SOCKET CONTACT
SHOWN IN MATED CONDITION
800 PLACES



ELECTRICAL AND MECHANICAL CHARACTERISTICS

Insert Diall, closed entry.
Contacts Pin - Leaded copper alloy.
Socket - Chrome copper.

20 lbs. min. pushout

Hardware All hardware is stainless steel except parts
of the engaging mechanism. These parts
are hard anodized aluminum.

Over-all size 12.375" x 8.00" x 5.00".

Weight 15 Pounds.

Number of contacts 800 (also available to 1200, see text)

Type of contacts Size 20, modified MIL-C-26636 pin and
socket, crimp tail, Poke-Home®, rear re-
moval contacts.

Crimping Tool MS 3191.

Contact Removal Tool .. 200-4000-750.

Contact Resistance 1 millivolt max. at 1 ampere direct current.

Insulation Resistance ... 5 megohms min. at 500 VDC.

Operating Temperature .. Minus -125°F to plus +250°F.

(w/Teflon patch cords)

Shock 20 G with 20 millisecond duration.

Humidity 5 days at 95% relative humidity.

Vibration 20 cps to 150 cps at 7 G.

(sinusoidal) 20 cps to 2000 cps 7 to 26 G's.

150 cps to 292 cps at .006 in. DA.

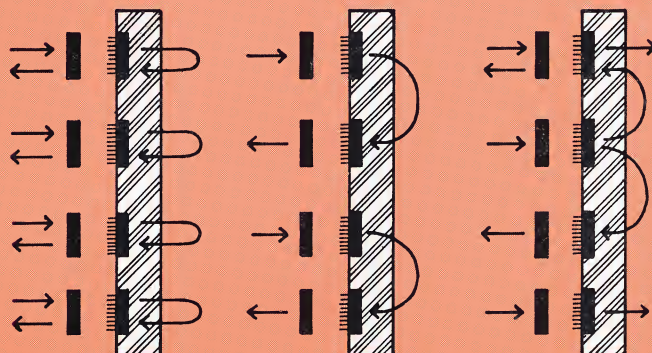
Vibration 20 cps to 2000 cps at 0.2 g²/cps while

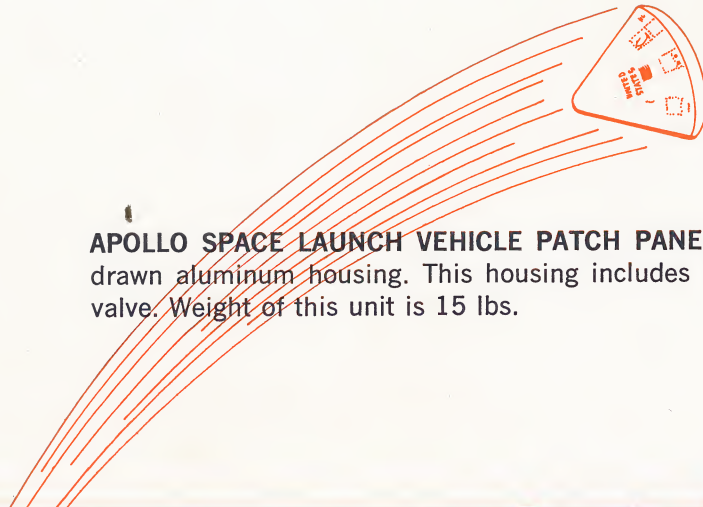
(Random) exposed to minus 65°F.

Altitude Sea level to 820,000 feet.

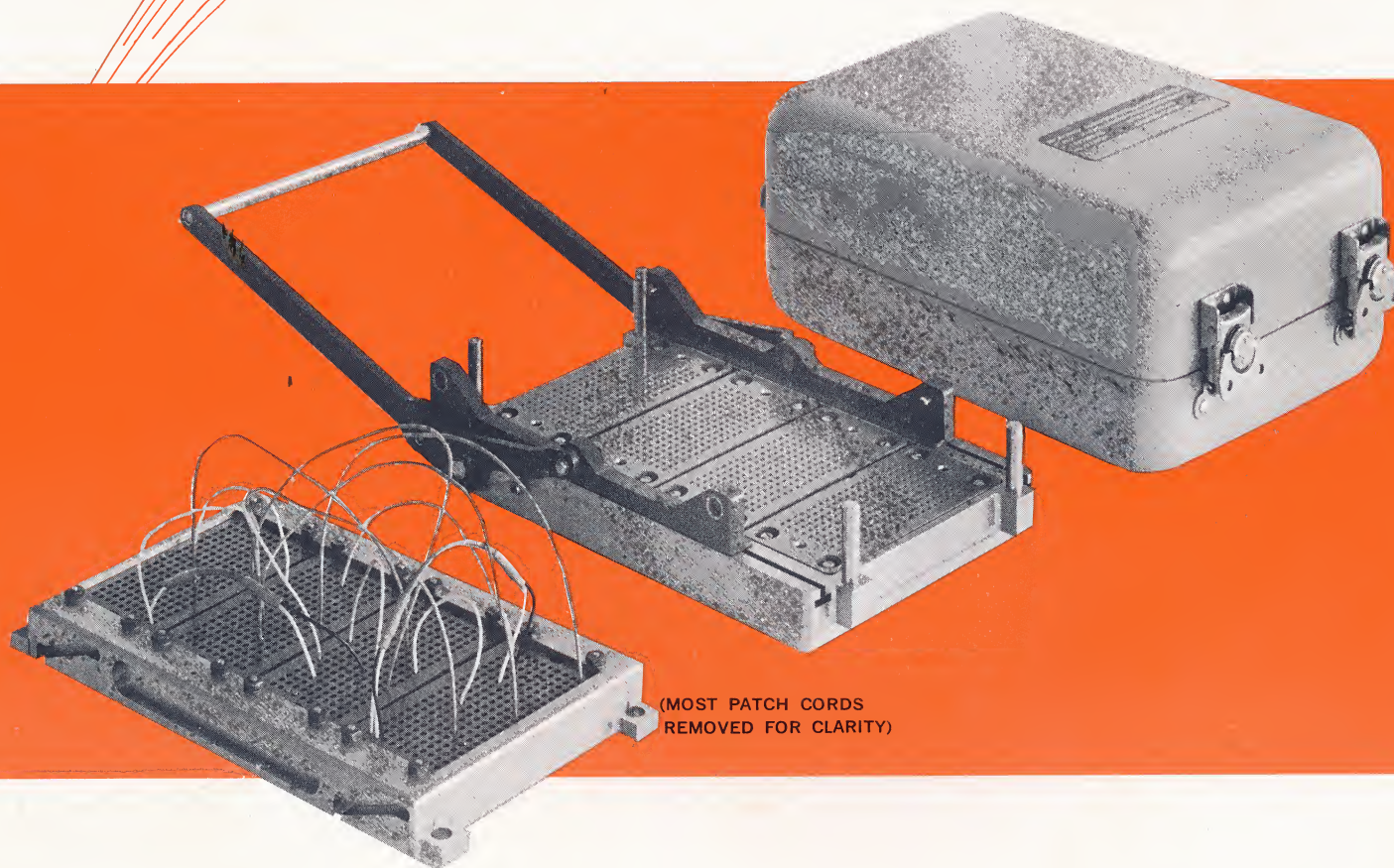
PRACTICAL APPLICATIONS

Program changes can be made in seconds with great variety of circuit possibilities by altering existing Patch Panel circuits or changing to a new pre-programmed Patch Panel. Crimp-type removal contacts utilize the standard MS 3191 crimping tool. The plug and receptacle inserts are identical and can be used in either position which allows maximum freedom in combining pin and socket applications and reduces the spares and logistics problems. Circuits can be changed while the connector is mated or unmated.





APOLLO SPACE LAUNCH VEHICLE PATCH PANEL is furnished in an environmental deep drawn aluminum housing. This housing includes EMI shielding, and a pressure relief valve. Weight of this unit is 15 lbs.



AMPHENOL  **SPACE AND MISSILE SYSTEMS**

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